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Mar 28, 2000

DERWENT-ACC-NO: 2000-302533
 DERWENT-WEEK: 200026
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TITLE: Bulk-production of animal feed containing conjugated linoleic acid produced by simultaneous fat splitting and alkali treatment of specified plant oils without additional purification

INVENTOR: REMMEREIT, J

PATENT-ASSIGNEE:

ASSIGNEE	CODE
NATURAL <u>NUTRITION</u> LTD	NATUN

PRIORITY-DATA: 1998US-0027075 (February 20, 1998)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
US 6042869 A	March 28, 2000	N/A	009	A23L001/20

APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
US 6042869A	February 20, 1998	1998US-0027075	N/A

INT-CL (IPC): A23L 1/20

ABSTRACTED-PUB-NO: US 6042869A

BASIC-ABSTRACT:

NOVELTY - Production of safe and palatable animal feed comprising conjugated linoleic acid, obtained without need for purification, involves industrial size manufacture by fatty-acid splitting and alkali treatment of safflower oil or sunflower oil.

DETAILED DESCRIPTION - A method of formulating an animal feed, comprising:

- (1) providing a seed oil selected from sunflower oil and safflower oil;
- (2) fat-splitting and alkali treatment of the selected oil such that an isomerized preparation is obtained comprising at least 50% isomerization of linoleic acid to conjugated linoleic acid;
- (3) separation of the aqueous fraction from non-aqueous fraction, the latter containing conjugated linoleic acid; and
- (4) formulating an animal feed from the non-aqueous fraction.

An INDEPENDENT CLAIM is also included for a method of formulating an animal feed from sunflower oil or safflower oil isomerized to form conjugated linoleic acid, which involves separation of a non-aqueous fraction containing the conjugated linoleic acid from an aqueous fraction without distillation.

USE - For increasing lean to fat ratio when fed to animals e.g. hogs, cattle, and

also suitable for feed of domesticated animals, poultry.

ADVANTAGE - Contains conjugated fatty acid which can be produced economically in industrial-scale bulk process whilst having sufficiently low phosphatide and sterol content to not required additional purification by distillation, before incorporation in animal feed.

CHOSEN-DRAWING: Dwg.0/0

TITLE-TERMS: BULK PRODUCE ANIMAL FEED CONTAIN CONJUGATE LINOLEIC ACID PRODUCE SIMULTANEOUS FAT SPLIT ALKALI TREAT SPECIFIED PLANT OIL ADD PURIFICATION

DERWENT-CLASS: D13 E17

CPI-CODES: D03-G04; E10-C04H;

CHEMICAL-CODES:

Chemical Indexing M3 *01*

Fragmentation Code

H7 H722 J0 J011 J1 J171 M225 M231 M262 M281

M320 M416 M720 M904 M905 M910 N161 N422 N514 N523

Q220 Q271

Specific Compounds

00206K 00206P 14105K 14105P

Registry Numbers

0206P 0206U

UNLINKED-DERWENT-REGISTRY-NUMBERS: 0206P; 0206U

SECONDARY-ACC-NO:

CPI Secondary Accession Numbers: C2000-091575